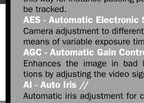
DIGITUS® Professional

# IP Security Cameras 2011

ONVIF

| Camera Features | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Product Range** | **DIGITUS®** | **DIGITUS®** | **DIGITUS®** | **DIGITUS®** | **DIGITUS® Professional** | **DIGITUS® Professional** | **DIGITUS® Professional** | **DIGITUS® Professional** | **DIGITUS® Professional** | **DIGITUS® Professional** | **DIGITUS® Professional** | **DIGITUS® Professional** | **DIGITUS® Professional** | **DIGITUS® Professional** | **DIGITUS® Professional** |
| | | | | | | | | | | | | | | |  |
| Item number | **DN-16024** | **DN-16025** | **DN-16033** | **DN-16034** | **DN-16060 \| DN-16060-1 (with ONVIF)** | **DN-16061 \| DN-16061-1 (with ONVIF)** | **DN-16063 \| DN-16063-1 (with ONVIF)** | **DN-16062 (with ONVIF)** | **DN-16053 \| DN-16053-1 (mit ONVIF)** | **DN-16054 \| DN-16054-1 (with ONVIF)** | **DN-16059 (with ONVIF)** | **DN-16058 \| DN-16058-1 (with ONVIF)** | **DN-16055-1 \| DN-16055-2 (with ONVIF)** | **DN-16065** |
| Name | Fast Ethernet IP Camera MJPEG | Fast Ethernet Wireless IP Camera with Nightview MJPEG | Fast Ethernet Pan & Tilt IP Camera MJPEG | Fast Ethernet Wireless Pan & Tilt IP Camera with Nightview MJPEG | Fast Ethernet IP Camera H.264 | Fast Ethernet Wireless Pan & Tilt IP Camera with Nightview MJPEG | Wireless LAN IP Camera with Nightview H.264 | ONVIF Fast Ethernet 1.3 Megapixel IP Camera with Nightview H.264 | Fast Ethernet IP Outdoor Camera H.264 | Fast Ethernet IP Outdoor Camera H.264 Zoom | Fast Ethernet 1.3 Megapixel Outdoor IP Camera H.264 | Fast Ethernet IP Dome Indoor Camera H.264 | Fast Ethernet IP Dome Outdoor Camera H.264 | Fast Ethernet IP Dome Outdoor Camera H.264 |
| **Environment** | | | | | | | | | | | | | | |
| In/Out Door Use | Indoor | Indoor | Indoor | Indoor | Indoor | Indoor | Indoor | Indoor | Outdoor | Outdoor | Outdoor | Indoor | Outdoor | Outdoor |
| Day/Night | Day | Day & Night | Day | Day & Night | Day | Day & Night | Day & Night | Day & Night | Day & Night | Day & Night | Day & Night | Day | Day | Day |
| **Network Connection** | | | | | | | | | | | | | | |
| Lan Connection | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps |
| USB | – | – | – | – | – | For optional wireless dongle (e.g DN-7044) & USB flash drive | For optional wireless dongle (e.g DN-7044) & USB flash drive | – | – | – | – | – | – | – |
| Wireless | – | 802.11b/g/n, WPS button | – | 802.11b/g/n, WPS button | – | 802.11b/g/n | 802.11b/g/n | – | – | – | – | – | – | – |
| Wireless Encryption | – | WEP 64/128 bit, WPA-PSK, WPA2-PSK | – | WEP 64/128 bit, WPA-PSK, WPA2-PSK | – | WEP 64/128 bit, WPA-PSK, WPA2-PSK | WEP 64/128 bit, WPA-PSK, WPA2-PSK | – | – | – | – | – | – | – |
| **Video / Audio Spec** | | | | | | | | | | | | | | |
| Video Compression (H.264 / MPEG4 / MJPEG) | MJPEG | MJPEG | MJPEG | MJPEG | MPEG4 / MJPEG / H.264 | MPEG4 / MJPEG / H.264 | MPEG4 / MJPEG / H.264 | MPEG4 / MJPEG / H.264 | MPEG4 / MJPEG / H.264 | MPEG4 / MJPEG / H.264 | MPEG4 / MJPEG / H.264 | MPEG4 / MJPEG / H.264 | MPEG4 / MJPEG / H.264 | MPEG4 / MJPEG / H.264 |
| Video Remote Control | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Video Adjustment | Brightness, Contrast, Saturation | Brightness, Contrast, Saturation | Brightness, Contrast, Saturation | Brightness, Contrast, Saturation | Brightness, Contrast, Saturation and Hue | Brightness, Contrast, Saturation and Hue | Brightness, Contrast, Saturation and Hue | Brightness, Contrast, Saturation and Hue | Brightness, Contrast, Saturation and Hue | Brightness, Contrast, Saturation and Hue | Brightness, Contrast, Saturation and Hue | Brightness, Contrast, Saturation and Hue | Brightness, Contrast, Saturation and Hue | Brightness, Contrast, Saturation and Hue |
| Audio Input | – | Built-in Microphone | Built-in Microphone | Built-in Microphone | – | Built-in Microphone, External Microphone Input | Built-in Microphone, External Microphone Input | Built-in Microphone, External Microphone Input | – | – | – | – | – | – |
| Audio Output | – | + | + | + | – | + | + | – | – | – | – | – | – | – |
| **Camera Spec** | | | | | | | | | | | | | | |
| Sensor | 1/4" CMOS | 1/4" CMOS | 1/4" CMOS | 1/4" CMOS | 1/3" H.R. CCD | 1/3" H.R. CCD | 1/3" H.R. CCD | 1/3" MOS-Type Image Sensor | 1/3" H.R. CCD | 1/3" H.R. CCD | 1/3" MOS-Type Image Sensor | 1/3" H.R. CCD | 1/4" Sony Color Super HAD CCD | 1/4" Sony Color Super HAD CCD |
| Pixels | 640(H) x 480(V) <NTSC> / <PAL> | 640(H) x 480(V) <NTSC> / <PAL> | 640(H) x 480(V) <NTSC> / <PAL> | 640(H) x 480(V) <NTSC> / <PAL> | 768(H) x 494(V) <NTSC> / 752(H) x 582(V) <PAL> | 768(H) x 494(V) <NTSC> / 752(H) x 582(V) <PAL> | 768(H) x 494(V) <NTSC> / 752(H) x 582(V) <PAL> | 1024(H) x 768(V) <NTSC> / <PAL> | 768(H) x 494(V) <NTSC> / 752(H) x 582(V) <PAL> | 768(H) x 494(V) <NTSC> / 752(H) x 582(V) <PAL> | 1280(H) x 1024(V) <NTSC> / <PAL> | 771(H) x 492(V) <NTSC> / 753(H) x 582(V) <PAL> | 768(H) x 494(V) <NTSC> / 752(H) x 582(V) <PAL> | 768(H) x 494(V) <NTSC> / 752(H) x 582(V) <PAL> |
| Lens | F2.8 f4.6mm | F2.8 f4.6mm | F1.8 f4.0mm | F1.8 f4.0mm | F1.9 f4.6mm | F1.9 f4.6mm | F1.9 f4.6mm | F1.5 f4.0mm | F1.4 f6.0mm | 2.25X Zoom F1.8 f4.0mm ~ f9.0mm | F1.8 f6.0mm | 2.25X Zoom F1.8 f4.0mm ~ f9.0mm | 22X Zoom F 1.6(Wide)~3.7(Tele) f3.9 ~ 85.9mm | 22X Zoom F 1.6(Wide)~3.7(Tele) f3.9 ~ 85.9mm |
| Horizontal Viewing Angle | 60- | 60- | 64° | 64° | 60° | 60° | 60° | 75° | 48° | 75° ~ 36° | 62° | 75° ~ 36° | 60° ~ 4° | 60° ~ 4° |
| Min Illumination (without Infrared LED) | 0.5 Lux / F1.8 | 0.5 Lux / F1.8 | 0.5 Lux / F1.8 | 0.5 Lux / F1.8 | 1 Lux / F1.9 | 1 Lux / F1.9 | 1 Lux / F1.9 | 0.11 Lux / F1.5 | 0.05 Lux / F1.4 | 0.4 Lux / F1.8 | 0.2 Lux / F1.8 | 0.4 Lux / F1.8 | 0.3 Lux / F1.6 | 0.3 Lux / F1.6 |
| Shutter Speed | 1 / 30 to 1 / 5,000 sec. | 1 / 30 to 1 / 5,000 sec. | 1 / 30 to 1 / 5,000 Sek. | 1 / 30 to 1 / 5,000 Sek. | 1 / 60 (1/50) to 1 / 100,000 Sek. | 1 / 60 (1/50) to 1 / 100,000 Sek. | 1 / 60 (1/50) to 1 / 100,000 Sek. | At 60 fps: 1/60s to 1/100000s | 1 / 60 (1/50) to 1 / 100,000 Sek. | 1 / 60 (1/50) to 1 / 100,000 Sek. | At 60 fps: 1/60s to 1/60000s | 1 / 60 (1/50) to 1 / 100,000 Sek. | 1 / 60 (1/50) to 1 / 100,000 Sek. | 1 / 60 (1/50) to 1 / 100,000 Sek. |
| Infrared LED | – | 6 LEDs (5 meters) | – | 7 LEDs (5 Meter) | – | 12 LEDs (10 Meter) | 12 LEDs (10 Meter) | White LEDs (10 Meter) | LEDs 56 (25 Meter) | LEDs 56 (25 Meter) | LEDs 56 (25 Meter) | – | – | – |
| Infrared Sensitivity Range | – | 850 nanometer | – | 940 nanometer | – | 850 nanometer | 850 nanometer | – | 850 nanometer | 850 nanometer | 850 nanometer | – | – | – |
| BLC | AUTO | AUTO | Auto | Auto | Auto | Auto | Auto | Auto | On / Off | On / Off | – | On / Off | On / Off | On / Off |
| White Balance | Auto / Indoor / Outdoor | Auto / Indoor / Outdoor | Auto / Indoor / Outdoor | Auto / Indoor / Outdoor | ATW | ATW | ATW | ATW | ATW | ATW | ATW | ATW | Auto / Indoor 1 / Indoor 2 / Sun / Cloudy * Indoor1 = 9000K; Indoor2 = 3000K; Sun = 5500K; Cloudy = 7000K | Auto / Indoor 1 / Indoor 2 / Sun / Cloudy * Indoor1 = 9000K; Indoor2 = 3000K; Sun = 5500K; Cloudy = 7000K |
| AGC | Auto | Auto | Auto | Auto | Auto | Auto | Auto | Auto | Auto | Auto | Auto | Auto | Auto | Auto |
| IRIS Mode | – | – | – | – | AES | AES | AES | AES | AES | AES | AES | AES(default)/AI | – | – |
| Focus | Fixed focus | Fixed focus | Fixed focus | Fixed focus | Fixed focus | Fixed focus | Fixed focus | Fixed focus | Fixed focus | Fixed focus | Fixed focus | Fixed focus | Active + Passive Autofocus | Active + Passive Autofocus |
| IP Rating | – | – | – | – | – | – | – | – | IP67 | IP67 | IP67 | – | IP66 | IP66 |
| **P/T/Z Support** | | | | | | | | | | | | | | |
| Pan | – | – | +165- ~ -165- | +165- ~ -165- | – | – | – | – | – | – | – | – | 360- | 360- |
| Tilt | – | – | +90- ~ -15- | +90- ~ -15- | – | – | – | – | – | – | – | – | 90- | 90- |
| Zoom | 3x Digital Zoom | 3x Digital Zoom | 3x Digital Zoom | 3x Digital Zoom | – | – | – | – | – | 2.25x Optical Zoom | – | 2.25x Optical Zoom | 22x Optical Zoom | 22x Optical Zoom |
| Max. Zoom Speed | – | – | – | – | – | – | – | – | – | – | – | – | Ca. 7s (Tele ~ Wide) | Ca. 7s (Tele ~ Wide) |
| **Protocols** | | | | | | | | | | | | | | |
| DDNS | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| PPPoE | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| DHCP | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| NTP | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| ICMP | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| SMTP | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| HTTP | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| RTP | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| RTSP | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| SNTP | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| TCP/IP | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| FTP | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| **Features** | | | | | | | | | | | | | | |
| Web management | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Management Software (Free CMS software, for up to 16 network cameras control simultaneously) | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Security (Multiple user access levels with password) | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Supports mobile surveillance (iPhone, BlackBerry, WinCE, J2ME & Android, Symbian Support) | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Remote Control | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Motion Detection | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| GPIO Trigger | – | – | 1 in / 1 out | 1 in / 1 out | – | – | – | – | – | – | – | – | – | – |
| PIR | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Alarm and event Notification | Image upload over FTP and Email | Image upload over FTP and Email | Image upload over FTP and Email | Image upload over FTP and Email | Image upload over FTP and Email | Image upload over FTP and Email | Image upload over FTP and Email | Image upload over FTP and Email | Image upload over FTP and Email | Image upload over FTP and Email | Image upload over FTP and Email | Image upload over FTP and Email | Image upload over FTP and Email | Image upload over FTP and Email |
| iPhone push notification | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Smart light Control | – | – | – | – | – | + | + | – | + | + | – | – | – | – |
| IR SHIFT | – | – | – | – | – | – | – | – | – | + | + | – | – | – |
| Smart Zoom | – | – | – | – | – | – | – | + (Digital) | – | + | + (Digital) | + | – | – |
| Face Tracking | – | – | – | – | – | – | – | + | – | – | + | – | – | – |
| Auto Tracking | – | – | – | – | – | – | – | – | – | – | – | + | – | + |
| **Software Requirements** | | | | | | | | | | | | | | |
| CMS Software | Ultra View Pro | Ultra View Pro | Ultra View Pro | Ultra View Pro | Video Viewer | Video Viewer | Video Viewer | Video Viewer | Video Viewer | Video Viewer | Video Viewer | Video Viewer | Video Viewer | Video Viewer |
| Supported Operating Systems CMS Software | Windows XP / Vista / 7 (32 / 64 bit) | Windows XP / Vista / 7 (32 / 64 bit) | Windows XP / Vista / 7 (32 / 64 bit) | Windows XP / Vista / 7 (32 / 64 bit) | Windows XP / Vista / 7 (32 / 64 bit) | Windows XP / Vista / 7 (32 / 64 bit) | Windows XP / Vista / 7 (32 / 64 bit) | Windows XP / Vista / 7 (32 / 64 bit) | Windows XP / Vista / 7 (32 / 64 bit) | Windows XP / Vista / 7 (32 / 64 bit) | Windows XP / Vista / 7 (32 / 64 bit) | Windows XP / Vista / 7 (32 / 64 bit) | Windows XP / Vista / 7 (32 / 64 bit) | Windows XP / Vista / 7 (32 / 64 bit) |
| Computer Hardware for Management Software | Pentium 4 2.4GHz, 512 MB RAM, AGP graphics card | Pentium 4 2.4GHz, 512 MB RAM, AGP graphics card | Pentium 4 2.4GHz, 512 MB RAM, AGP graphics card | Pentium 4 2.4GHz, 512 MB RAM, AGP graphics card | Pentium 4 1.3GHz, 256 MB RAM, AGP graphics card | Pentium 4 1.3GHz, 256 MB RAM, AGP graphics card | Pentium 4 1.3GHz, 256 MB RAM, AGP graphics card | Pentium 4 1.3GHz, 256 MB RAM, AGP graphics card | Pentium 4 1.3GHz, 256 MB RAM, AGP graphics card | Pentium 4 1.3GHz, 256 MB RAM, AGP graphics card | Pentium 4 1.3GHz, 256 MB RAM, AGP graphics card | Pentium 4 1.3GHz, 256 MB RAM, AGP graphics card | Pentium 4 1.3GHz, 256 MB RAM, AGP graphics card | Pentium 4 1.3GHz, 256 MB RAM, AGP graphics card |
| Browser for Web Management | Internet Explorer 7.0 / Firefox 3.6 / Google Chrome 7.0 / Apple Safari 4.0 | Internet Explorer 7.0 / Firefox 3.6 / Google Chrome 7.0 / Apple Safari 4.0 | Internet Explorer 7.0 / Firefox 3.6 / Google Chrome 7.0 / Apple Safari 4.0 | Internet Explorer 7.0 / Firefox 3.6 / Google Chrome 7.0 / Apple Safari 4.0 | Internet Explorer 7.0 / Firefox 3.6 / Google Chrome 7.0 / Apple Safari 4.0 | Internet Explorer 7.0 / Firefox 3.6 / Google Chrome 7.0 / Apple Safari 4.0 | Internet Explorer 7.0 / Firefox 3.6 / Google Chrome 7.0 / Apple Safari 4.0 | Internet Explorer 7.0 / Firefox 3.6 / Google Chrome 7.0 / Apple Safari 4.0 | Internet Explorer 7.0 / Firefox 3.6 / Google Chrome 7.0 / Apple Safari 4.0 | Internet Explorer 7.0 / Firefox 3.6 / Google Chrome 7.0 / Apple Safari 4.0 | Internet Explorer 7.0 / Firefox 3.6 / Google Chrome 7.0 / Apple Safari 4.0 | Internet Explorer 7.0 / Firefox 3.6 / Google Chrome 7.0 / Apple Safari 4.0 | Internet Explorer 7.0 / Firefox 3.6 / Google Chrome 7.0 / Apple Safari 4.0 | Internet Explorer 7.0 / Firefox 3.6 / Google Chrome 7.0 / Apple Safari 4.0 |
| **General** | | | | | | | | | | | | | | |
| Weight | 125 g | 165 g | 310 g | 350 g | 0,91 kg | 0,98 kg | 0,98 kg | 0,48 kg | 2,34 kg | 2.13 kg | 2,28 kg | 0,78 kg | 2,5 kg + 1,16 kg (Halterung) | 1,75 kg + 5,30 kg (Halterung u. Gehäuse) |
| Dimensions | 70(L) x 100(B) x 57(H) | 70(L) x 100(B) x 57(H) | 110(L) x 117(B) x 100(H) | 110(L) x 117(B) x 100(H) | 152.5(L) x 115.2(B) x 40.2(H) | 152.5(L) x 115.2(B) x 40.2(H) | 152.5(L) x 115.2(B) x 40.2(H) | 95(L) x 59(B) x 41(H) | 282.4(L) x 115.6(W) x 212.63(H) | 282.4(L) x 117.89(B) x 212.63(H) | 282.4(L) x 117.89(B) x 212.63(H) | 124.3(Ø) x 102(H) | 306.04(L) x 125.12(B) x 229.43(H) | 323(L) x 220(Ø) x 339(H) |
| Operating Temperature | 0~45°C | 0~45 ° C | 0~45 °C | 0~45 °C | 0~40 °C | 0~40 °C | 0~40 °C | 0~40 °C | -20~40 °C | -20~40 °C | -20~40 °C | 0~40 °C | -20~40 °C | -20°C ~ 50°C / Fan: 40°C on, 30°C off |
| Operating Humidity | 85% | 85% | 85% | 85% | 85% | 85% | 85% | 85% | 85% | 85% | 85% | 85% | 85% | 85% |
| Power Source / Consumption | DC 5V / Max. 6W | DC 5V / Max. 6W | DC 12V / Max. 9W | DC 12V / Max. 9W | DC 12V / Max. 6W | DC 12V / Max. 12W | DC 12V / Max. 12W | DC 5V / Max. 6W | DC 12V / Max. 12W | AC 100V ~ 240V / Max.13W | DC 12V / Max. 12W | DC 12V / Max. 8W | DC 12V / Max. 18W | DC 12V / Max. 36W |
| Suitable Power over Ethernet Kit | PoE 802.3af Injector + Splitter (DN-95102 + DN-95202) | PoE 802.3af Injector + Splitter (DN-95102 + DN-95202) | – | – | PoE 802.3af Injector + Splitter (DN-95102 + DN-95202) | PoE 802.3af Injector + Splitter (DN-95102 + DN-95202) | PoE 802.3af Injector + Splitter (DN-95102 + DN-95202) | PoE 802.3af Injector + Splitter (DN-95102 + DN-95202) | PoE 802.3at Injector + Splitter (DN-95103 + DN-95203) | – | PoE 802.3at Injector + Splitter (DN-95103 + DN-95203) | PoE 802.3af Injector + Splitter (DN-95102 + DN-95202) | PoE 802.3at Injector + Splitter (DN-95103 + DN-95203) | – |
| Suitable Power Adapter | DC 5V, 2.5A | DC 5V, 2.5A | DC 12V, 1.5A | DC 12V, 1.5A | DC 12V, 1A | DC 12V, 1A | DC 12V, 1A | DC 5V / 1.2A | DC 12V / 1.5A | POWER CORD | DC 12V / 1.5A | DC 12V / 1A | DC 12V / 1.5A | DC 12V / 3.3A |
| Power Adapter Included | + | + | + | + | + | + | + | + | Optional (DN-16057-1) | + | Optional (DN-16057-1) | Optional (DN-16057-1) | Optional (DN-16057-1) | – |
| **Outdoor Accessories** | | | | | | | | | | | | | | |
| Housing | – | – | – | – | DN-16056-1 | DN-16056-1 | DN-16056-1 | – | – | – | – | – | – | – |
| Bracket for Housing | – | – | – | – | DN-16056-2 | DN-16056-2 | DN-16056-2 | – | – | – | – | – | DN-16056 (mandatory) | – |
| Inner Corner Bracket | – | – | – | – | DN-16056-3 | DN-16056-3 | DN-16056-3 | – | – | – | – | – | – | – |
| Outer Corner Bracket | – | – | – | – | DN-16056-4 | DN-16056-4 | DN-16056-4 | – | – | – | – | – | – | – |
| **Indoor Accessories** | | | | | | | | | | | | | | |
| Bracket (120mm) | DN-16090 | DN-16090 | – | – | DN-16090 | DN-16090 | DN-16090 | DN-16090 | – | – | – | – | – | – |
| Bracket (130mm) | DN-16091 | DN-16091 | – | – | DN-16091 | DN-16091 | DN-16091 | DN-16091 | – | – | – | – | – | – |
| Bracket (305-465mm) | DN-16092 | DN-16092 | – | – | DN-16092 | DN-16092 | DN-16092 | DN-16092 | – | – | – | – | – | – |
| Angled Bracket (242x204mm) | DN-16093 | DN-16093 | – | – | DN-16093 | DN-16093 | DN-16093 | DN-16093 | – | – | – | – | – | – |

**Auto Tracking //**
A camera with auto tracking support can track movement in a certain direction and focus. In this way for instance passing pedestrians can be tracked.

**AES - Automatic Electronic Shutter //**
Camera adjustment to different brightness by means of variable exposure times.

**AGC - Automatic Gain Control //**
Enhances the image in bad lighting conditions by adjusting the video signal level.

**AI - Auto Iris //**
Automatic iris adjustment for current lighting conditions.

**BLC - Backlight Compensation //**
Improves the image with back lighting, such as direct sunlight.

**CCD - Charge-Coupled Device //**
One of the most popular image sensors. Generally for enhanced image quality compared with CMOS sensors. However, higher power consumption.

**CCTV - Closed Circuit Television //**
CCTV is a synonym for analog video monitoring.

**CIF - Common Intermediate Format //**
CIF format is a compromise between NTSC and PAL devices. CIF resolution is352 × 288 pixels.

**CMOS - Complementary Metal Oxide Semiconductor //**
One of the most popular image sensors. Generally for reduced image quality compared with CCD sensors. However, lower power consumption.

**CMS - Camera Management System //**
The camera management system is the supplied software, which allows viewing up to 16 cameras at the same time.

**DDNS - Dynamic Domain Name Server //**
It is not always quick and easy to connect to your own camera. DDNS support allocates an own address, such as camera.dyndns.org, for quick and easy connection.

**DHCP - Dynamic Host Configuration Protocol //**
A DHCP-supported camera is easier integrated in your own network, where it works with the router and gets its own address allocated. Generally this procedure is to
be implemented manually by the user.

**fps - Frames Per Second //**
Describes the number of images per second. Usually 20 images per second are sufficient for fluid image perception.

**FTP - File Transfer Protocol //**
An FTP-supported camera is able to transfer files to a so-called FTP server. FTP transmissions are often more reliable than network sharing.

**GPIO - General Purpose Input / Output //**
GPIO describes a communication method with other devices. Via the GPIO interface for instance motion detector and door lock can act in combination with a camera.

**H.264 //**
H.264 in IP monitoring describes the successor of MPEG4 compression. H.264 generates with less data volumes higher quality images.

**Hot Point //**
Hot Point ability allows clicking directly in the video image to control movement or zoom of a rotary camera.

**IR LED = Infrared Light Emitting Diode //**
IR LEDs are specific light diodes emitting near infrared light. In security solutions they are used to allow night vision.

**Lux //**
Lux is the luminance level unit. For security monitoring the minimum light for adequate image recording is usually specified. Candle light in1 m distance corresponds to approx. 1 Lux.

**MJPEG - Motion JPEG //**
Motion JPEG is a compression method for video material, where each and every image is converted to a JPEG image.

**MPEG4 //**
MPEG4 is a popular compression method for video material.

**NAS - Network Attached Storage //**
NAS systems provide storage capacity on the network without a separate computer. Data is mostly accessed via FTP protocol or network sharing.

**NTP - Network Time Protocol //**
Standard for clock synchronization, eliminating manual time setting.

**PIR - Passive Infrared Sensor //**
PIR is short for passive infrared. Generally used in combination with a PIR motion detector.

**PoE - Power over Ethernet //**
Specifies the power supply of an end device via network cable. Often reduces installation costs.

**PPPoE - Point-to-Point Protocol over Ethernet //**
The PPPoE protocol is usually needed for ADSL internet connections via telephone line. A camera supporting this protocol can access the Internet without additional router.

**PTZ - Pan / Tilt / Zoom //**
PTZ specifies a camera's ability to pan, tilt and zoom.

**RTP - Real Time Transport Protocol //**
The RTP protocol serves to transmit audiovisual streams within a network.

**RTSP - Real Time Streaming Protocol //**
The RTSP protocol serves controlling streams. Multimedia programs, such as VLC, can usually be used to view these streams. For security monitoring it means that a large variety of programs can be used to view the current camera image.

**SLC - Smart Light Control //**
Smart light control describes an additional camera function to minimize overexposure.

**Smart Zoom //**
Smart zoom allows automatic zooming in moving objects.

**SMTP - Simple Mail Transfer Protocol //**
A camera supporting the SMTP protocol can send emails. This is for instance used to send alert emails.

**SNTP - Simple Network Time Protocol //**
Standard for clock synchronization, eliminating manual time setting.

**WPS - Wi-Fi Protected Setup //**
Wi-Fi protected setup is a quick and easy alternative to set up a secure wireless LAN connection, normally with a button on the end device. If the receiving end, generally a router or access point, has a corresponding button, then a connection can be established without entering a password.